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Yannis Smaragdakis, Don Batory

April 2002 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 11 Issue 2

Publisher: ACM Press

Full text available: pdf(510.43 KB)

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Nguyen Truong Thang, Takuya Katayama

May 2002 **Proceedings of the International Workshop on Principles of Software Evolution**

Publisher: ACM Press

Full text available: pdf(424.71 KB)

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3 [Query optimization II: An architecture for query optimization](#)

Arnon Rosenthal, David Reiner

June 1982 **Proceedings of the 1982 ACM SIGMOD international conference on Management of data**

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Full text available: pdf(1.11 MB)

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4 [Coordination models, languages and applications \(CM\): LighTS: a lightweight, customizable tuple space supporting context-aware applications](#)

Gian Pietro Picco, Davide Balzarotti, Paolo Costa

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing**

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5 [On the role of language constructs for framework design](#)

Görel Hedin, Jørgen Lindskov Knudsen

March 2000 **ACM Computing Surveys (CSUR)**

Publisher: ACM Press

Full text available: pdf(37.97 KB)

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6 Extending Java for high-level Web service construction



Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Publisher: ACM Press

Full text available: [pdf\(947.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

7 Efficient crosstalk noise modeling using aggressor and tree reductions



Li Ding, David Blaauw, Pinaki Mazumder

November 2002 **Proceedings of the 2002 IEEE/ACM international conference on Computer-aided design**

Publisher: ACM Press

Full text available: [pdf\(139.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

8 Using testing and JUnit across the curriculum



Michael Wick, Daniel Stevenson, Paul Wagner

February 2005 **ACM SIGCSE Bulletin , Proceedings of the 36th SIGCSE technical symposium on Computer science education SIGCSE '05**, Volume 37 Issue 1

Publisher: ACM Press

Full text available: [pdf\(219.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

9 Change management: An infrastructure for development of object-oriented, multi-level configuration management services



Tien N. Nguyen, Ethan V. Munson, John T. Boyland, Cheng Thao

May 2005 **Proceedings of the 27th international conference on Software engineering**

Publisher: ACM Press

Full text available: [pdf\(418.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

10 Efficient and automatic implementation of the adjoint state method



Mark S. Gockenbach, Daniel R. Reynolds, Peng Shen, William W. Symes

March 2002 **ACM Transactions on Mathematical Software (TOMS)**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: [pdf\(587.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

11 Cluster: an informal report



Shang Lujun

January 1991 **ACM SIGPLAN Notices**, Volume 26 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

12 Facilitating abstraction and reuse with ExpectTK



Navid Sabbaghi

February 1996 **Crossroads**, Volume 2 Issue 3

Publisher: ACM Press

Full text available: [html\(36.36 KB\)](#) Additional Information: [full citation](#), [index terms](#)

13 Dependency diagrams



Mark Ray





















February 1996 **Crossroads**, Volume 2 Issue 3

Publisher: ACM Press

Full text available: [html\(36.36 KB\)](#) Additional Information: [full citation](#), [index terms](#)

14

An overview of the standard template library

-  G. Bowden Wise
April 1996 **ACM SIGPLAN Notices**, Volume 31 Issue 4
Publisher: ACM Press
Full text available:  pdf(566.70 KB) Additional Information: [full citation](#), [index terms](#)
- 15 [Automatic information extraction from large websites](#) 
 Valter Crescenzi, Giansalvatore Mecca
September 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 5
Publisher: ACM Press
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- 16 [Object-oriented design of preconditioned iterative methods in diffpack](#) 
 Are Magnus Bruaset, Hans Petter Langtangen
March 1997 **ACM Transactions on Mathematical Software (TOMS)**, Volume 23 Issue 1
Publisher: ACM Press
Full text available:  pdf(734.26 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)
- 17 [A theory of using history for equational systems with applications](#) 
 Rakesh M. Verma
September 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 5
Publisher: ACM Press
Full text available:  pdf(2.70 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)
- 18 [High performance Fortran language specification](#) 
 CORPORATE Rice University
December 1993 **ACM SIGPLAN Fortran Forum**, Volume 12 Issue 4
Publisher: ACM Press
Full text available:  pdf(5.69 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)
- 19 [Fortran 8X draft](#) 
 Loren P. Meissner
December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4
Publisher: ACM Press
Full text available:  pdf(21.36 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)
- 20 [The design of the E programming language](#) 
 Joel E. Richardson, Michael J. Carey, Daniel T. Schuh
July 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 15 Issue 3
Publisher: ACM Press
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1 [Chianti: a tool for change impact analysis of java programs](#)



Xiaoxia Ren, Fenil Shah, Frank Tip, Barbara G. Ryder, Ophelia Chesley

 October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '04**, Volume 39 Issue 10

Publisher: ACM Press

Full text available: pdf(465.37 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper reports on the design and implementation of Chianti, a change impact analysis tool for Java that is implemented in the context of the Eclipse environment. Chianti analyzes two versions of an application and decomposes their difference into a set of atomic changes. Change impact is then reported in terms of affected (regression or unit) tests whose execution behavior may have been modified by the applied changes. For each affected test, Chianti also determines a set of affecting cha ...

Keywords: analysis of object-oriented programs, change impact analysis, regression test, unit test

2 [On objects and events](#)



Patrick Th. Eugster, Rachid Guerraoui, Christian Heide Damm

 October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '01**, Volume 36 Issue 11

Publisher: ACM Press

Full text available: pdf(308.58 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents linguistic primitives for publish/subscribe programming using events and objects. We integrate our primitives into a strongly typed object-oriented language through four mechanisms: (1) serialization, (2) multiple subtyping, (3) closures, and (4) deferred code evaluation. We illustrate our primitives through Java, showing how we have overcome its respective lacks. A precompiler transforms statements based on our publish/subscribe primitives into calls to specifically generated ...

3 [Scalable extensibility via nested inheritance](#)

Nathaniel Nystrom, Stephen Chong, Andrew C. Myers

 October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual ACM SIGPLAN**

**conference on Object-oriented programming, systems, languages, and applications OOPSLA '04**, Volume 39 Issue 10**Publisher:** ACM PressFull text available: [pdf\(196.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Inheritance is a useful mechanism for factoring and reusing code. However, it has limitations for building extensible systems. We describe *nested inheritance*, a mechanism that addresses some of the limitations of ordinary inheritance and other code reuse mechanisms. Using our experience with an extensible compiler framework, we show how nested inheritance can be used to construct highly extensible software frameworks. The essential aspects of nested inheritance are formalized i ...

Keywords: inheritance, nested classes, object-oriented programming languages, virtual classes

4 Extensible algebraic datatypes with defaults

Matthias Zenger, Martin Odersky

October 2001 **ACM SIGPLAN Notices , Proceedings of the sixth ACM SIGPLAN international conference on Functional programming ICFP '01**, Volume 36 Issue 10**Publisher:** ACM PressFull text available: [pdf\(259.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A major problem for writing extensible software arises when recursively defined datatypes and operations on these types have to be extended simultaneously without modifying existing code. This paper introduces Extensible Algebraic Datatypes with defaults, which promote a simple programming pattern to solve this well-known problem. We show that it is possible to encode extensible algebraic datatypes in an object-oriented language, using a new design pattern for extensible visitors. Extensible alg ...

5 Technical correspondence: Closures for statically-typed object-oriented languages

José de Oliveira Guimarães

August 2004 **ACM SIGPLAN Notices**, Volume 39 Issue 8**Publisher:** ACM PressFull text available: [pdf\(117.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Closures increase considerably the level of a language by mixing access to local variables with remote execution of a set of locally-defined statements. However, to date closures have not been added to statically-typed languages because it is difficult to type them and runtime errors occur if local variables that no longer exist are accessed. We proposed a limited but quite general kind of closure for statically-typed object-oriented languages. They can be used in most situations normal closu ...

Keywords: Smalltalk blocks, closure, green, object-oriented languages

6 Converting java programs to use generic libraries

Alan Donovan, Adam Kiezun, Matthew S. Tschantz, Michael D. Ernst

October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '04**, Volume 39 Issue 10**Publisher:** ACM PressFull text available: [pdf\(1.18 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Java 1.5 will include a type system (called JSR-14) that supports *parametric polymorphism*, or *generic* classes. This will bring many benefits to Java

programmers, not least because current Java practice makes heavy use of logically-generic classes, including container classes.

Translation of Java source code into semantically equivalent JSR-14 source code requires two steps: parameterization (adding type parameters to class definitions) and instantiation (a ...

Keywords: JSR-14, Java 1.5, Java 5, generic types, instantiation types, parameterized types, parametric polymorphism, raw types, type inference

7 Making the future safe for the past: adding genericity to the Java programming language



Gilad Bracha, Martin Odersky, David Stoutamire, Philip Wadler
October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10

Publisher: ACM Press

Full text available: [pdf\(1.91 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present GJ, a design that extends the Java programming language with generic types and methods. These are both explained and implemented by translation into the unextended language. The translation closely mimics the way generics are emulated by programmers: it erases all type parameters, maps type variables to their bounds, and inserts casts where needed. Some subtleties of the translation are caused by the handling of overriding. GJ increases expressiveness and safety: code utilizing generic ...

8 Technical papers: software maintenance: Concern graphs: finding and describing concerns using structural program dependencies



Martin P. Robillard, Gail C. Murphy
May 2002 **Proceedings of the 24th International Conference on Software Engineering**

Publisher: ACM Press

Full text available: [pdf\(1.35 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many maintenance tasks address concerns, or features, that are not well modularized in the source code comprising a system. Existing approaches available to help software developers locate and manage scattered concerns use a representation based on lines of source code, complicating the analysis of the concerns. In this paper, we introduce the Concern Graph representation that abstracts the implementation details of a concern and makes explicit the relationships between different parts of the co ...

9 Performance and Analysis: WebGraph: things you thought you could not do with Java™

Paolo Boldi, Sebastiano Vigna
June 2004 **Proceedings of the 3rd international symposium on Principles and practice of programming in Java PPPJ '04**

Publisher: Trinity College Dublin

Full text available: [pdf\(180.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Studying web graphs is often difficult due to their large size. The WebGraph framework is a suite of codes, algorithms and tools that make it easy to manipulate large web graphs, and to store them in a limited space, by exploiting the inner redundancies of the web. WebGraph is based on sophisticated bitwise compression techniques, and functional-style lazy constructions. Common wisdom would say that the most unlikely language to

implement such a framework is Java. We are going to tell you the re ...

10 Compatible genericity with run-time types for the Java programming language



Robert Cartwright, Guy L. Steele

October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10

Publisher: ACM Press

Full text available: pdf(1.97 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The most serious impediment to writing substantial programs in the Java™ programming language is the lack of a *genericity* mechanism for abstracting classes and methods with respect to type. During the past two years, several research groups have developed Java extensions that support various forms of genericity, but none has succeeded in accommodating general type parameterization (akin to Java arrays) while retaining compatibility with the existing. Java Virtual Machine. In thi ...

11 Language-specific make technology for the Java programming language



Mikhail Dmitriev

November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '02**, Volume 37 Issue 11

Publisher: ACM Press

Full text available: pdf(238.19 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Keeping the code of a Java application consistent (code is consistent if all of the project classes can be recompiled together without errors) prevents late linking errors, and thus may significantly improve development turnaround time. In this paper we describe a make technology for the Java programming language, that is based on smart dependency checking, guarantees consistency of the project code, and at the same time reduces the number of source code recompilations to the minimum. After proj ...

Keywords: Java, dependency checking, development turnaround time, make

12 A practical type system and language for reference immutability



Adrian Birka, Michael D. Ernst

October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '04**, Volume 39 Issue 10

Publisher: ACM Press



Full text available: pdf(171.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a type system that is capable of expressing and enforcing immutability constraints. The specific constraint expressed is that the abstract state of the object to which an immutable reference refers cannot be modified using that reference. The abstract state is (part of) the transitively reachable state: that is, the state of the object and all state reachable from it by following references. The type system permits explicitly excluding fields or objects from the abstract ...



Keywords: Java, Javari, const, immutability, mutable, readonly, type system, verification

13 Type types: Scalable component abstractions




-  Martin Odersky, Matthias Zenger
 October 2005 **Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming systems languages and applications OOPSLA '05**
Publisher: ACM Press
 Full text available:  [pdf\(650.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We identify three programming language abstractions for the construction of reusable components: abstract type members, explicit selftypes, and modular mixin composition. Together, these abstractions enable us to transform an arbitrary assembly of static program parts with hard references between them into a system of reusable components. The transformation maintains the structure of the original system. We demonstrate this approach in two case studies, a subject/observer framework and a compile ...

Keywords: Scala, abstract types, classes, components, mixins




- 14 [A selective, just-in-time aspect weaver](#) 
 Yoshiaki Sato, Shigeru Chiba, Michiaki Tatsubori
 September 2003 **Proceedings of the second international conference on Generative programming and component engineering GPCE '03**
Publisher: Springer-Verlag New York, Inc.
 Full text available:  [pdf\(256.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Dynamic AOP (Aspect-Oriented Programming) is receiving growing interests in both the academia and the industry. Since it allows weaving aspects with a program at runtime, it is useful for rapid prototyping and adaptive software. However, the previous implementations of dynamic AOP systems suffered from serious performance penalties. This paper presents our new efficient dynamic AOP system in Java for addressing the underlying problem. This system called Wool is a hybrid of two approaches. When a ...

- 15 [Optimising aspectJ](#) 
 Pavel Avgustinov, Aske Simon Christensen, Laurie Hendren, Sascha Kuzins, Jennifer Lhoták, Ondřej Lhoták, Oege de Moor, Damien Sereni, Ganesh Sittampalam, Julian Tibble
 June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation PLDI '05**, Volume 40 Issue 6
Publisher: ACM Press
 Full text available:  [pdf\(194.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

AspectJ, an aspect-oriented extension of Java, is becoming increasingly popular. However, not much work has been directed at optimising compilers for AspectJ. Optimising AOP languages provides many new and interesting challenges for compiler writers, and this paper identifies and addresses three such challenges. First, compiling *around* advice efficiently is particularly challenging. We provide a new code generation strategy for *around* advice, which (unlike previous implementations) ...

Keywords: around advice, aspect-oriented programming language, aspectJ, cflow pointcut, optimization

- 16 [Semantic interfaces and OWL tools: Parsing owl dl: trees or triples?](#) 
 Sean K. Bechhofer, Jeremy J. Carroll
 May 2004 **Proceedings of the 13th international conference on World Wide Web**
Publisher: ACM Press
 Full text available:  [pdf\(156.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Web Ontology Language (OWL) defines three classes of documents: Lite, DL, and Full. All RDF/XML documents are OWL Full documents, some OWL Full documents are also OWL DL documents, and some OWL DL documents are also OWL Lite documents. This paper discusses *parsing* and *species recognition* -- that is the process of determining whether a given document falls into the OWL Lite, DL or Full class. We describe two alternative approaches to this task, one based on abstract syntax trees, ...

Keywords: owl, parsing, rdf, semantic web

17 Advanced control flow in Java card programming

 Peng Li, Steve Zdancewic

June 2004 **ACM SIGPLAN Notices , Proceedings of the 2004 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems LCTES '04**, Volume 39 Issue 7


Publisher: ACM Press

Full text available:  [pdf\(205.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Java Card technology simplifies the development of smart card applications by providing a high-level programming language similar to Java. However, the master-slave programming model used in current Java Card platform creates control flow difficulties when writing complex card programs, making it inconvenient, tedious, and error-prone to implement Java Card applications. This paper examines these drawbacks of the master-slave model and proposes a concurrent thread model for developing future Java ...

Keywords: CPS, Java card, continuation, control flow, smart card, trampolined style

18 Jedd: a BDD-based relational extension of Java

 Ondřej Lhoták, Laurie Hendren

June 2004 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2004 conference on Programming language design and implementation PLDI '04**, Volume 39 Issue 6


Publisher: ACM Press

Full text available:  [pdf\(137.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present Jedd, a language extension to Java that supports a convenient way of programming with Binary Decision Diagrams (BDDs). The Jedd language abstracts BDDs as database-style relations and operations on relations, and provides static type rules to ensure that relational operations are used correctly. The paper provides a description of the Jedd language and reports on the design and implementation of the Jedd translator and associated runtime system. Of particular interest is ...

Keywords: Java, binary decision diagrams, boolean formula satisfiability, language design, program analysis, relations

19 Profiling Java applications using code hotswapping and dynamic call graph revelation

 Mikhail Dmitriev

January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international workshop on Software and performance WOSP '04**, Volume 29 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Instrumentation-based profiling has many advantages and one serious disadvantage: usually high performance overhead. This overhead can be substantially reduced if only a

small part of the target application (for example, one that has previously been identified as a performance bottleneck) is instrumented, while the rest of the application code continues to run at full speed. The value of such a profiling technology would increase further if the code could be instrumented and de-instrumented as m ...

20 A practical comparison between Java and Ada in implementing a real-time embedded system



Eric Potratz

December 2003

ACM SIGAda Ada Letters , Proceedings of the 2003 annual ACM SIGAda international conference on Ada: the engineering of correct and reliable software for real-time & distributed systems using ada and related technologies SigAda '03, Volume XXIV Issue 1

Publisher: ACM Press

Full text available: pdf(259.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents a student's observations from an undergraduate research project that explored using Java to implement the software for a real-time embedded system that was originally implemented in a university-level real-time systems course using Ada 95. It briefly gives an overview of the project, the decision made concerning which Java virtual machine to use, and how that virtual machine performed in the real-time environment. It then goes into detail about the merits and drawbacks of usi ...

Keywords: Ada, Java, concurrency, conditional synchronization, drivers, embedded systems, memory management, object-oriented programming, package elaboration, performance, priority inversion, real-time systems, scheduling

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